

ICD20 – Exam Review – Unit 3 & 4

Name: Gorski

1. Identify the following.

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(a) 4 security solutions for a low-risk setting (like a home)	(b) 5 security solutions for a medium-risk setting (business)	(c) 1 security solution for an extremely high-risk situation	(d) 3 types of malware.	(e) The names of 3 famous computer viruses.
1 Password	1 Password	1 Air Gap	1 Virus	1 Blaster
2 Virus Scanner	2 Virus Scanner		2 Worm	2 GhostNet
3 Firewall	3 Firewall		3 Trojan	3 Stuxnet
4 Backup	4 Backup			
	5 Network Use Policy			

2. Fill in the words that match the descriptions given.

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D-Dos	a) An attack that would over-whelm a server with fake network traffic..
Zero Day	b) A type of hacking that has never been used before.
Sick Kids	c) An Ontario hospital that was D-Dosed in 2022. Ransomware.
Herder	d) A hacker who controls a botnet.
10%	e) The percentage of viruses caught by a scanner.
Cyberwar	f) An attack by a nation-state (country) using malware or hacking.
Sniffing	g) An attack where a hacker reads packets on a public network.
Phishing	h) An attack where a hacker sends an innocent looking message that tricks you into sending log in information or passwords to them.
Dataminer	i) A term for a company that gathers your data and sells it.
Privacy	j) The state of being free from being observed by other people.

oops.

3. Look at the following and answer the data miner's questions.

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PlayerGame

PlayID	GameID
14	1
15	1
12	2
14	2
15	2
14	3

Game

GID	Name	Rating
1	Minecraft	78
2	Pokémon	95
3	Fortnite	84

Player

PID	First	Last
12	Jean	Poole
14	Ella	Vader
15	Jo	King

- Which game has the lowest rating?
- What is player #14's last name?
- Which game has the most players?
- Which player plays the most games?
- Does Jean Poole play Minecraft?

Minecraft
Vader
Pokémon
14 Ella Vader
No

(a) What is one positive feature of datamining for gamers?

Gaming companies can re-allocate resources based on where needed.

(b) What is one negative feature of datamining for gamers?

Gaming companies can use their past actions to manipulate them into playing for longer periods of time or to spend more.

4. Fill in the text variable in the memory diagram.

var b = "banANAS";

[0]	[1]	[2]	[3]	[4]	[5]	[6]
b	a	n	A	N	A	S

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Based on the above variable, match the code to its output. Write the letter in the FIRST column.

c	0	a) setText("output", b.length);
b	6	b) setText("output", b.indexOf("S"));
a	7	c) setText("output", b.indexOf("b"));
d	b	d) setText("output", b.charAt(1));
g	S	e) setText("output", b.toUpperCase());
h	ban	f) setText("output", b.toLowerCase());
i	ANA	g) setText("output", b.charAt(n.length-1));
f	bananas	h) setText("output", b.substring(0, 3));
e	BANANAS	i) setText("output", b.substring(3, 6));

5. Fill in the memory diagram. Then, write the code to get each piece of output shown.

var d = "Dragonfruit & Melon";

[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
D	r	a	g	o	n	f	r	u	i	t		&		M	e	l	o	n

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(a)	Dragon	setText("output", d.substring(0, 6));
(b)	fruit	setText("output", d.substring(6, 11));
(c)	Melon	setText("output", d.substring(14, 19));
(d)	19 //the length	setText("output", d.length);
(e)	3 //where g appears	setText("output", d.indexOf("g"));
(f)	a	setText("output", d.charAt(2));
(g)	dragonfruit & melon	setText("output", d.toLowerCase());
(h)	DRAGONFRUIT & MELON	setText("output", d.toUpperCase());
(i)	Melonfruit	setText("output", d.substring(14, 19) + d.substring(6, 11));

6. (a) What are the parts of a loop?

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A	Initialize	Loop	stopping	variable
B	Test	Loop	stopping	condition
C	Steps	TO	Repeat	
D	Progress	TO	The Loop	stopping condition

(b) On the following loop, use the letters from part a to label each circled part.

```

for (var A i = 5; B i < 60; D i += 10) {
  C
  setText("output", (getText("output") + " " + i));
}
  
```

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